

ALTERNATIVE TO PTO/SB08a/b (06-03)

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	08/487,312
				Filing Date	June 7, 1995
				First Named Inventor	Walter L. MILLER
				Art Unit	1647
				Examiner Name	C. Saoud
Sheet	1	of	1	Attorney Docket Number	220002016004

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<i>[Signature]</i>	1.	US-3,265,579	08/1966	Daniels and Parcelas	
<i>[Signature]</i>	2.	US-4,658,021	04/1987	Goeddel et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

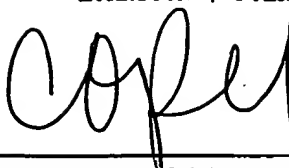
*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
A ↓	3.	BAUMAN et al., J. Dairy Sci. (1985) 68:1352-1362		
	4.	BELL et al., The Journal of Biological Chemistry (1985) 260(14):8520-8525		
A	5.	DAYHOFF et al., A Model of Evolutionary Change in Proteins, in: Atlas of Protein Sequence and Structure (1978) pp.345-352		
	6.	EPPARD et al., Journal of Endocrinology (1992) 132:47-56		
A	7.	GOEDDEL et al., Nature (1979) 281(18):544-549		
	8.	HART et al., Biochem. J. (1984) 218:573-581		
A	9.	HART et al., Biochem. J. (1984) 224:93-100		
	10.	JOHNSON et al., The Journal of Biological Chemistry (1989) 264(24):14262-14271		
A	11.	LEUNG et al., Endocrinology (1986) 119(4):1489-1496		
	12.	MILLER et al., The Journal of Biological Chemistry (1980) 255(16):7521-7524		
A	13.	SEAVEY et al., Biochemical and Biophysical Research Communications (1971) 43(1):189-195		
	14.	WALLIS et al., FEBS Letters (1973) 35(1):11-14		
A	15.	WOOD et al., The Journal of Biological Chemistry (1989) 264(25):14741-14747		

*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature <i>[Signature]</i> sd-274461	Date Considered 6/18/2005
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PATENT
Docket No. 220002016004
Client Ref. UC-80-065-4

CERTIFICATE OF MAILING BY "FIRST CLASS MAIL"

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:
Assistant Commissioner for Patents, Washington, D.C. 20231, on August 27, 1996.


Nancy J. Robins

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Walter L. Miller et al.

Serial No.: 08/487,312

Filing Date: 7 June 1995

For: BOVINE GROWTH HORMONE

Examiner: C. Saoud

Group Art Unit: 1812

INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

1. In compliance with the duty of disclosure under 37 CFR 1.56 and in accordance with the practice under 37 CFR 1.97 and 1.98, Applicants are submitting this Information Disclosure Statement for the above-identified patent application.

2. The above-identified patent application is a continuation application under 37 CFR 1.60 of prior application Serial No. 07/480,745 filed February 15, 1990, which is a continuation application of Serial No. 07/090,937 filed August 28, 1987, which is a continuation application of Serial No. 06/489,557 filed April 28, 1983, which is a continuation application of Serial No. 06/181,348 filed August 26, 1980. The Examiner's attention is respectfully directed to the art of record in the parent case. Pursuant to 37 CFR 1.98(d) and MPEP 609(A)(2), copies of

dc-46365

documents being cited are not required to be submitted to the Patent and Trademark Office if (1) previously cited and submitted in a parent application and (2) the parent is clearly identified and relied upon for an earlier filing date. If the Examiner would like an additional copy of any of the art made of record in connection with the parent to this application, Applicants would be happy to provide it in response to a telephonic request directed to the undersigned attorney.

3. This Information Disclosure Statement is being submitted following receipt of the first Office Action, but before issuance of a Final Office Action or Notice of Allowance. The Assistant Commissioner is authorized to charge the amount of \$220.00 for the fee set forth in 37 CFR 1.17(p) to Deposit Account Number 03-1952.

4. Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the documents have indeed been considered and made of record herein.

5. This Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

Dated: August 27, 1996

Respectfully submitted,

By: Kate H. Murashige
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PTO/SB/08 (2-92)

Sheet 1 of 2

Form PTO-1449		Docket Number 220002016004		Application Number 08/487,312			
INFORMATION DISCLOSURE IN AN APPLICATION (Use several sheets if necessary)		Applicant Walter L. Miller et al.*					
		Filing Date 7 June 1995		Group Art Unit 1812 1801			
U.S. PATENT DOCUMENTS							
Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
CA	1.	8/6/91	5,037,806	Krivi	514	12	
	2.	6/22/93	4,415,732	Itakura et al.	536	26.7	
	3.	7/3/84	4,458,066	Caruthers et al.	536	25.34	
V	4.	11/15/83	4,415,732	Caruthers et al.	536	26.5	
FOREIGN PATENT DOCUMENTS							
Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
CA	2.	6/25/80	0012 494(A1)	EP			
	3.	5/16/79	0001 930(A2)	EP			
	4.	6/16/79	0001 929(A2)	EP			
V	5.						
OTHER DOCUMENTS <small>(including author, title, Date, Pertinent Pages, Etc.)</small>							
Examiner Initials	Ref. No.	Title					
CA	3.	Santome et al., "Primary Structure of bovine Growth Hormon", Eur. J. Biochem. 37:164-167 (1973)					
	4.	Perter et al., "The Evolution of Genes: the Chicken Preproinsulin Gene", Cell 20:555-566 (1980)					
	5.	Martial et al., "Human Growth Hormone: Complementary DNA Cloning and Expression in Bacteria", Science 205:602-607 (1979)					
	6.	Seeburg et. al., "Nucleotide Sequence and Amplification in Bacteria of Structural Gene for Rat Growth Hormone", Nature 270:486-494 (1977)					
	7.	Goodman and MacDonald, "Cloning of Hormone Genes from a Mixture of cDNA Molecules", Methods in Enzymology 68:75-90 (1979)					
	8.	Seeburg et. al., "Nucleotide Sequence of Part of the Gene for Human Chorionic Somatomammotropin: Purification of DNA Complementary to Predominate mRNA Species", Cell 12:157-165 (1977)					
	9.	Roskam et al., "Molecular Cloning and Nucleotide Sequence of the Bovine Growth Hormone Gene", Nucl. Acids Res. 10:7197-7210 (1982)					
	10.	Graf et al., "On the Primary Structure of Pituitary Bovine Browht Hormon", Biochem. biophys. Res. Comm. 56:168-176 (1974)					
V	11.	Lomedico et. al., "The Structure of Evolution of the Two Nonallelic Rat Preproinsulin Genes", Cell 18:545-558 (1979)					
EXAMINER: <i>Christine Saoud</i>				DATE CONSIDERED: <i>10/9/96</i>			
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.							

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Sheet 2 of 2

Form PTO-1449		Docket Number 220002016004	Application Number 08/487,312
INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Applicant Walter L. Miller et al.*	
		Filing Date 7 June 1995	Group Art Unit 1812
OTHER DOCUMENTS <i>(including author, title, Date, Pertinent Pages, Etc.)</i>			
Examiner Initials	Ref. No.	Title	
CA	12.	Miller et. al., "Molecular Cloning of Gene Sequences Coding for Bovine Growth Hormone and Prolactin", pediatric Research 14, Abstract 335 (1980)	
	13.	Nilson et. al., "Ontogeny of Pituitary Hormone mRNAs in th Bovine Fetus", J. Biol. Chem. 255:5871-5878 (1980)	
	14.	Seeburg et al., "Synthesis of Growth Hormone by Bacteria", Nature 276:795-798 (1978)	
	15.	Efstratiades et al., "Cloning of Double-Stranded cDNA", Genetic Engineering Principles and Methods 1:15-36 (1979)	
	16.	Gilbert et al., "Useful Proteins from Recombinant Bacteria", Scientific American 242:74-94 (1980)	
	17.	Nilson et. al., "Construction and Characterization of a cDNA Clone Containing a Portion of the Bovine Prolactin Sequence", Nucl. Acids Res. 8:1561-1573 (1980)	
	18.	Lingappa et al., "Nascent Prehormones are Intermediates in the Biosynthesis of Authentic Bovine Pituitary Growth Hormone and Prolactin", Proc. Nat. Acad. Sci. (USA) 74:2432-2436 (1977)	
	19.	Niall et. al., "The Chemistry of Growth Hormone and the Lactogenic Hormones", Recent process in Hormone Research 29:387-416 (1973)	
	20.	Wallis et al., "Molecular Evolution of Pituitary Growth Hormone", biochemical Societ Transactions, 549th Meeting, Cambridge 2:911-912 (1974)	
	21.	Harpold et. al., "The Synthesis and Processing of a Nuclear RNA Precursor to Rat Pregrowth Hormone Messenger RNA", Nucleic Acids Research 6:3133-3144 (1979)	
	22.	Maxam et. al., "A New Method for Sequencing DNA", Proc. Natl. Acad. Sci. (USA) 74:560-564 (1977)	
	23.	Caruthers et. al., in Nucleic Acids Synthesis: Applications to Molecular Biology and Genetic Engineering, Koster (ed.), Nucleic Acids Research Symposium Series No. 7, 217 (1980)	
	24.	Crea et. al., Proc. Natl. Acad. Sci. USA 75:5765 (1978)	
	25.	Wallis et al., FEBS letters 35:11 (1973)	
V	26.	Goedell et. al., Nature 281:544 (1979)	
EXAMINER: C. Saoud			
DATE CONSIDERED: 10/9/96			
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